

Shiv Vyas

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PROFESSIONAL EXPERIENCE

Technical Architect - IoT Product Line

Feb 2022 – Present | Raritan, NJ

Johnson & Johnson (Tata Consultancy Services)

- Engineered an IoT based warehouse solution integrating machine learning and human detection algorithms, enhancing space utilization and streamlining inventory management.
- Implemented a GxP-compliant edge architecture connecting 100+ medical instruments to Wi-Fi, improving data contextualization, reporting, and workflow across multiple sites.
- Led the creation of an automated video recording system utilizing computer vision, enabling QR code and gesture-triggered recording with speech-to-text subtitles, reducing manual editing by 70%.
- Built analytics pipelines with Databricks, Spark, and Azure to process over 18M IoT data points in 6 minutes, increasing processing speed by 60% and resolving data gaps.
- Automated 40+ testing scripts for Embedded-C SDK using pytest, enhancing pipeline efficiency by 25%.

Research Assistant

Jun 2021 - Feb 2022 | Melbourne, FL

Florida Institute of Technology

- Applied machine learning algorithms to satellite imagery for modeling future glacial changes, supporting NSF global climate policy initiatives.
- Created a dataset of 150,000+ Landsat-2 satellite images for training neural networks, transforming raw data into actionable insights.

Data Engineer

Dec 2020 - Jun 2021 | Melbourne, FL

Engage AI & Florida Institute of Technology

- Created a platform to help nations achieve and track United Nations eight Sustainable Development Goals.
- Scraped and compiled 1.5M+ data points from United Nations, International Monetary Fund, and World Bank; created a user-friendly UI for efficient data analysis with Python & Firebase.

Business Analyst Intern

May 2020 – Aug 2020 | Palm Bay, FL

Renesas Electronics Americas

- Facilitated integration of two acquisitions into Renesas' digital ecosystem by conducting gap analysis, programming, and testing the RORE Platform, cutting processing time by 40% and training costs by 60%.
- Consolidated data from Oracle, SAP, and NetSuite using Model N, enhancing enterprise-wide collaboration.

Co-Founder

Jan 2017 – Jul 2019 | Ahmedabad, IND

Scudo Systems LLP

- Designed an affordable vehicle security system under \$80, securing Top-5 in the 2017 Start-Up India Yatra.
- Raised 1.2M INR in funding to support product development and commercialization, facilitating successful expansion and retaining 5% equity post-exit in 2019.

SKILLS

- **Programming Languages:** Python, C, C++, Java, JavaScript, SQL, HTML, CSS
- **Machine Learning & AI:** Pandas, PyTorch, Keras, TensorFlow, Polars, LSTM, CNN, RNN, Time-Series Modeling, AutoML, Hyperopt
- **Data Engineering & Analytics:** Databricks, Spark, Matplotlib, Plotly, SQL, Pandas
- **Cloud & DevOps:** Azure IoT Hub, Docker, Kubernetes, Git, Linux, Bash Scripting
- **Miscellaneous:** Data Pipeline(Data Cleansing, Wrangling, Visualization, Modeling, Deployment)

EDUCATION

M.S. in Computer Science

Graduated: May 2021

Florida Institute of Technology, Melbourne, Florida

Cumulative GPA: 3.7

- Teaching Assistant: Programming in Python - taught Python programming & Linux to 100+ sophomores.
- Semi-Automated Grading System - Developed an automated grading system that reduced grading time by 60% and minimized human error, using Unix, Python, and Bash for server deployment.

B.E. in Computer Engineering

Graduated: July 2019

Gujarat Technological University

Cumulative GPA : 3.6